

AMENDMENT

U.S. Appln. No. 09/663,298

PHD 99,118

Conceded
A2
7. (Amended) A plasma picture screen as claimed in claim 1, wherein the UV light reflecting layer covers the protective layer completely or only partly.

REMARKS

Reconsideration and allowance of this application are respectfully requested in light of the above amendments and the following remarks.

Claims 1-7 have been amended. The Abstract has also been replaced.

SUMMARY OF THE REJECTIONS:

(1) Claims 1-7 stand rejected under 35 U.S.C. §102(e) as allegedly being anticipated from the article by Shinkai et al..

(2) Claims 1, 2 and 7 stand rejected under 35 U.S.C. §102(e) as allegedly being anticipated by Yoo (U.S. 6,329,751 hereafter "Yoo").

(3) Claims 3-6 stand rejected under 35 U.S.C. §103(a) as allegedly being obvious over Yoo in view of Mitamura et al. (U.S. 6,149,967 hereafter "Mitamura et al.").

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EXAMINER'S POSITION:

35 U.S.C. §102(e):

According to the Office Action, Shinkai et al. and Yoo allegedly teach, *inter alia*, a front plate including a dielectric layer, a protective layer and a UV light reflecting layer.

APPLICANT'S TRAVERSAL:

It is respectfully submitted that Shinkai et al. does not anticipate any of the instant claims at least because the alleged the protective layer is not between the dielectric layer and the UV light reflecting layer, as recited in Claim 1. For example, the instant specification discloses at page 2, lines 16-19 that such a structure protects the subjacent layers from high ignition voltages and temperatures which are required for a plasma discharge and arise in the plasma discharge, respectively.

With regard to rejection of Claim 1 in view of Yoo, Applicants respectfully note that the alleged UV light reflecting layer (62) and the alleged protective layer (61) are both part of a single reflective layer (see col. 4, lines 1-3). Yoo is not believed to teach a protective layer and a reflective layer as recited in Claim 1.

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The Court of Appeals for the Federal Circuit held in *Verdegaal Bros. v. Union Oil Co. of California*, 814 F.2d 628,631, 2 USPQ2d 1051, 1053 (Fed. Cir. 1987):

A claim is anticipated only if each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference.

All claims dependent from claim 1 are believed to be allowable at least for dependency therefrom, and for separate reasons of patentability.

For the reasons previously indicated, the Office Action fails to set forth each and every claimed element in a single reference. Reconsideration and withdrawal of this ground of rejection are respectfully requested.

35 U.S.C. §103(a)

In view of the above amendments and comments the Section 103 rejection of dependent claims 3-6 is believed obviated.

For all the foregoing reasons, it is respectfully submitted that all the present claims are patentable in view of the cited references. A Notice of Allowance is respectfully requested.

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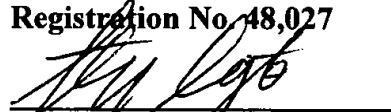
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Should the Examiner deem that there are any issues which may be best resolved by telephone communication, he is respectfully requested to telephone Applicants' undersigned Attorney at the number listed below.

Respectfully submitted,

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Date: August 13, 2002

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: H. BECHTEL ET AL.

SERIAL NO.: 09/663,298

EXAMINER: J. WILLIAMS

FILED: September 15, 2000

ART UNIT: 2879

FOR: PLASMA PICTURE SCREEN WITH UV LIGHT REFLECTING
FRONT PLATE COATING

VERSION WITH MARKINGS SHOWING CHANGES MADE

Assistant Commissioner for Patents
Washington, DC 20231

Dear Sir:

In response to the Office Action dated May 22, 2002, the Applicants request amendment of the above-identified application as follows:

IN THE CLAIMS:

Please amend the following claims:

1. (Amended) A plasma picture screen ~~with a~~, comprising:
- a front plate;
a back plate;

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~~_____ (1) comprising a glass plate (3) on which a dielectric layer (4) and a protective layer (5) are provided, a back plate (2),~~ a number~~plurality~~ of gas-filled plasma cells arranged between ~~said~~the front and back plates and separated by partitioning walls; and

~~_____ a plurality of electrodes (6, 7, 11) on the front plate (1) and the back plate (2) for generating corona discharges, characterized in that~~wherein the front plate includes a glass plate on which a dielectric layer, a protective layer and a UV light reflecting layer (8) is~~are~~ provided, ~~on the protective layer (5)~~is between the dielectric layer and the UV light reflecting layer.

2. (Amended) A plasma picture screen as claimed in claim 1, ~~characterized in that~~wherein the UV light reflecting layer ~~(8)~~ ~~comprises~~includes oxides of the composition M_2O , such as Li_2O , or oxides of the composition MO , with M chosen from the group Mg, Ca, Sr, and Ba, or oxides of the composition M_2O_3 , with M chosen from the group B, Al, Sc, Y, and La, or oxides of the composition MO_2 , with M chosen from the group Si, Ge, Sn, Ti, Zr, and Hf, or oxides of the composition $M'M''_2O_4$, with M' chosen from the group Mg, Ca, Sr, and Ba, and M'' chosen from the group Al, Sc, Y, and La, or fluorides of the composition MF , with M chosen from the

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group Li, Na, K, Rb, Cs, and Ag, or fluorides of the composition MF_2 , with M chosen from the group Mg, Ca, Sr, Ba, Sn, Cu, Zn, and Pb, or fluorides of the composition MF_3 , with M chosen from the group La, Pr, Sm, Eu, Gd, Yb, and Lu, or fluorides of the composition $M'M''F_3$, with M' chosen from the group Li, Na, K, Rb, and Cs, and M'' chosen from the group Mg, Ca, Sr, and Ba, or phosphates of the composition M_3PO_4 , with M chosen from the group Li, Na, K, Rb, and Cs, or phosphates of the composition $M_3(PO_4)_2$, with M chosen from the group Mg, Ca, Sr, and Ba, or phosphates of the composition MPO_4 , with M chosen from the group Al, Sc, Y, La, Pr, Sm, Eu, Gd, Yb, and Lu, or phosphates of the composition $M_3(PO_4)_4$, with M chosen from the group Ti, Zr, and Hf, or metaphosphates with a chain length n of between 3 and 9 and the composition $(M_xPO_3)_n$, with $x = 1$ if M is chosen from the group Li, Na, K, Rb, and Cs, $x = \frac{1}{2}$ if M is chosen from the group Mg, Ca, Sr, Ba, Sn, Cu, Zn, and Pb, $x = \frac{1}{3}$ if M is chosen from the group Al, Sc, Y, La, Pr, Sm, Eu, Gd, Yb, and Lu, and $x = \frac{1}{4}$ if M is chosen from the group Ti, Hf, and Zr, or polyphosphates with a chain length n between 10^1 and 10^6 and the composition $(M_xPO_3)_n$, with $x = 1$ if M is chosen from the group Li, Na, K, Rb, and Cs, $x = \frac{1}{2}$ if M is chosen from the group Mg, Ca, Sr, Ba, Sn, Cu, Zn, and Pb, $x = \frac{1}{3}$ if M is chosen from the group Al, Sc, Y, La, Pr, Sm, Eu, Gd, Yb, and Lu, and $x = \frac{1}{4}$ if M is chosen from the group Ti,

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Hf, and Zr, or primary phosphates of the composition MH_2PO_4 , with M chosen from the group Li, Na, K, Rb, and Cs, or $NH_4H_2PO_4$, or diamond.

3. (Amended) A plasma picture screen as claimed in claim 1, ~~characterized in that~~wherein the UV light reflecting layer ~~(8)~~ comprises~~includes~~ particles with a particle diameter of between 200 nm and 500 nm.

4. (Amended) A plasma picture screen as claimed in claim 3, ~~characterized in that~~wherein the UV light reflecting layer ~~(8)~~ has a thickness of 0.5 μm to 5 μm .

5. (Amended) A plasma picture screen as claimed in claim 1, ~~characterized in that~~wherein the UV light reflecting layer ~~(8)~~ comprises agglomerates of particles having particle diameters of between 10 nm and 200 nm.

6. (Amended) A plasma picture screen as claimed in claim 5, ~~characterized in that~~wherein the UV light reflecting layer ~~(8)~~ has a thickness of 0.2 μm to 10 μm .

7. (Amended) A plasma picture screen as claimed in claim 1, ~~characterized in that wherein~~ the UV light reflecting layer ~~(8)~~ covers the protective layer ~~(5)~~ completely or only partly.

In the Abstract:

~~The invention relates to a~~ plasma picture screen, in particular screen is disclosed. In one embodiment, an AC plasma picture screen with a coplanar arrangement which has an enhanced ~~luminance.~~ A layer (8), luminance is provided. A layer, which has a high reflection in the wavelength range of the plasma emission (145 to 200 nm) and a high transmission in the visible wavelength range, is provided on the front plate ~~(1), which comprises~~ plate. The front plate includes a glass plate ~~(3)~~ on which a dielectric layer ~~(4) and~~ layer, a protective layer, a layer ~~(5)~~ have been provided. ~~Said layer (8)~~ reflective layer are provided. The reflective layer reflects UV light ~~(12)~~ emitted in the direction of the front plate ~~(1)~~ back toward ~~the phosphors (10).~~

~~The~~ phosphors. The optical properties of the UV light reflecting layer ~~(8)~~ are realized with inorganic particles with a particle diameter of between 200 nm and 500 nm and a layer thickness from 0.5 μm to 5 μm , or with agglomerates of inorganic

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particles with a particle diameter of between 10 nm and 200 nm
and a layer thickness of 0.2 μm to 10 μm .